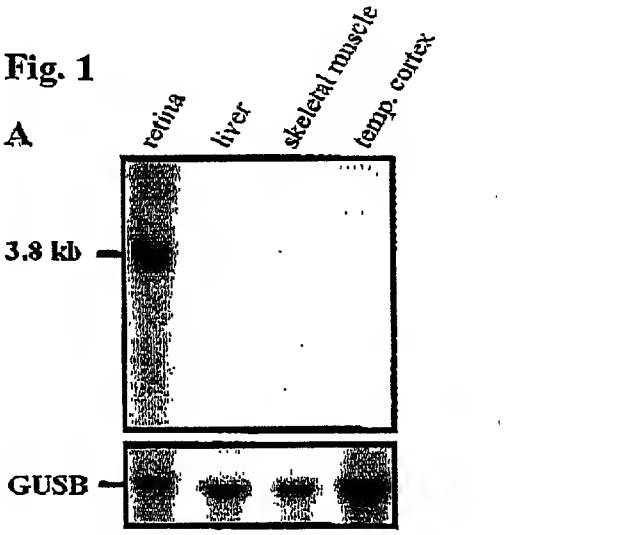
Fig. 1


A
retina
liver
skeletal muscle
temp. cortex
3.8 kb
GUSB

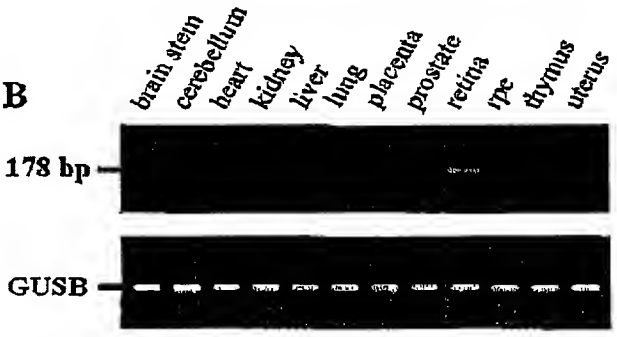

B
brain stem
cerebellum
heart
kidney
liver
lung
placenta
prostate
retina
rpe
thymus
uterus
178 bp
GUSB

Fig. 2

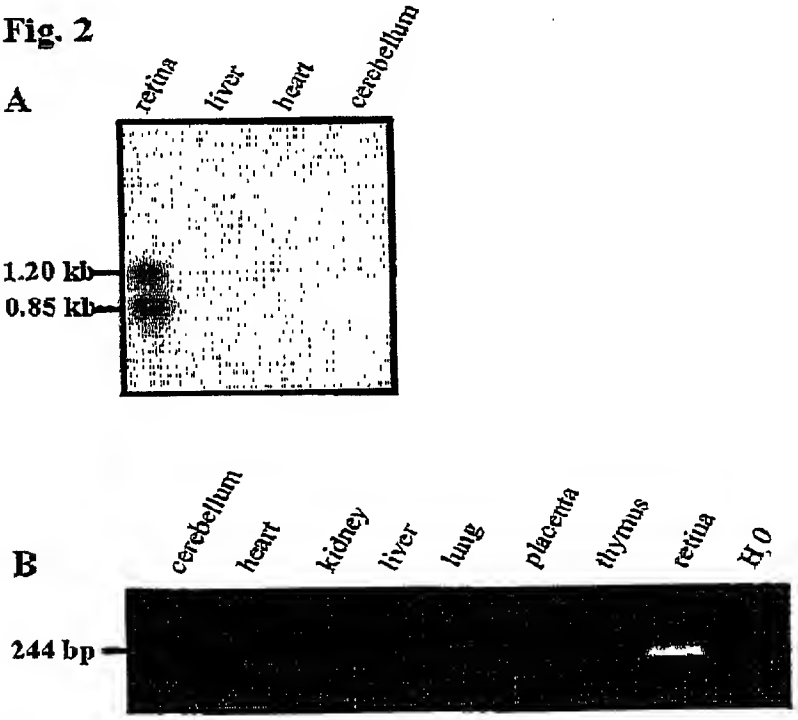

A
retina
liver
heart
cerebellum
1.20 kb
0.85 kb
B
cerebellum
heart
kidney
liver
lung
placenta
thymus
retina
H2O
244 bp

Fig. 3

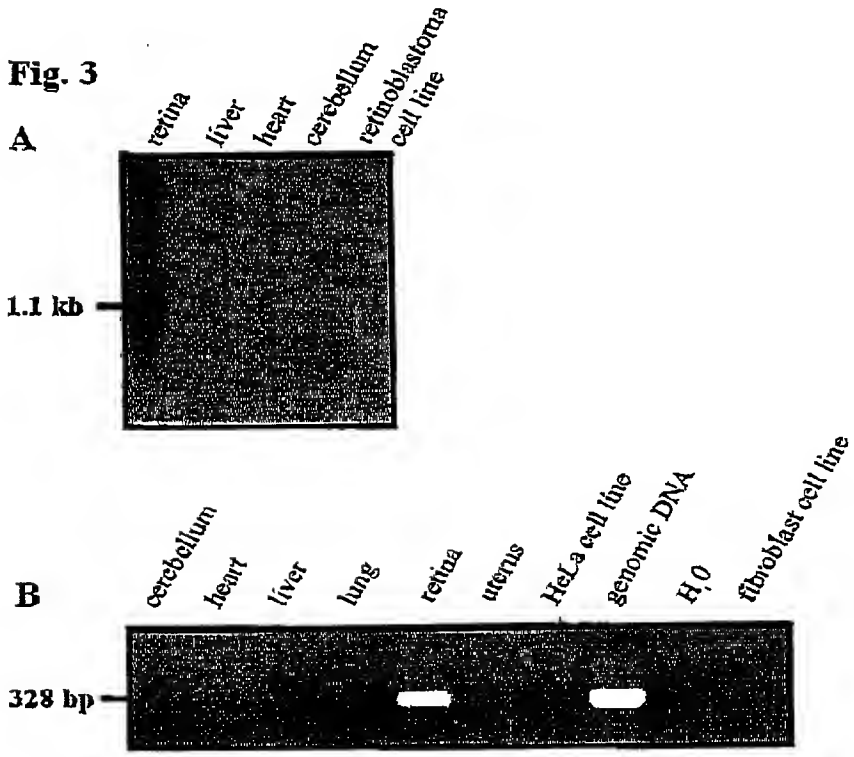

A
retina
liver
heart
cerebellum
retinoblastoma cell line
1.1 kb
B
cerebellum
heart
liver
lung
retina
uterus
HeLa cell line
genomic DNA
H2O
fibroblast cell line
328 bp

Fig. 4

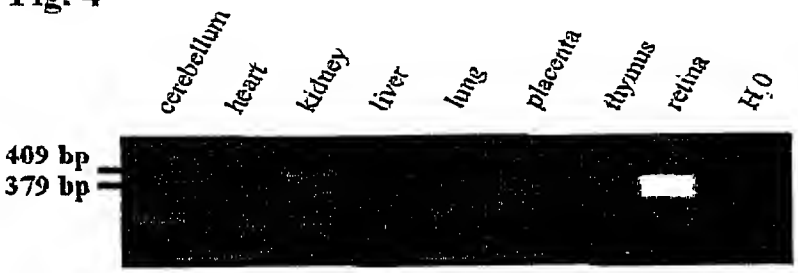

cerebellum
heart
kidney
liver
lung
placenta
thymus
retina
H2O
409 bp
379 bp

Figure 5

Seq. ID No. 1

GAGATTTTATCGGGAGCAGTGAGGTGACTTTGGCAGCTAACAGGCCACTAGTATC
CTACTAAAGCTTTTGTCTGGATAGGAGCAACATGCATGTTTACAGTCTTGCAGTG
TGCTGAGAGCTGGTGGCCAGTGGGACTGAGTGAGCTGTGTGCCGTGTATTGACCC
GCTTCCTAGTCCTGAATTCCTTTCAGAAGCTCCGGCAGGGAGG**ATG**ATACAGTCA
GACAAAGGAGCAGATCCACCAGACAAGAAGGACATGAAGCTTTCTACAGCCACCA
ATCCACAGAATGGCCTCTCCCAGATCCTGAGGCTTGTGCTGCAAGAGCTGAGTCT
GTTCTACAGCAGAGATGTGAATGGAGTGTGTCTCTTGTACGATCTCCTCCACTCG
CCGTGGCTTCAGGCTCTGCTAAAGATTTATGACTGCCTCCAGGAATTTAAAGAAA
AGAAACTAGTTCCTGCCACACCACATGCACAGGTGTTATCCTATGAGGTAGTGGA
GTTATTACGTGAAACCCCTACTTCCCCTGAGATCCAAGAGCTGAGACAAATGCTC
CAGGCTCCACACTTCAAGGCCTTGCTCAGTGCCCATGACACGATAGCTCAGAAAG
ATTTTGAACCCCTTCTCCCTCCACTGCCAGACAATATCCCTGAGAGTGAGGAAGC
AATGAGGATTGTTTGTTTAGTGAAAAACCAACAGCCCCTGGGAGCCACCATCAAG
CGCCACGAGATGACAGGGGACATCTTGGTGGCCAGGATCATCCACGGTGGGCTGG
CGGAGAGAAGTGGGTTGCTATATGCTGGAGACAAACTGGTAGAAGTGAATGGAGT
TTCAGTTGAGGGACTGGACCCTGAACAAGTGATCCATATTCTGGCCATGTCTCGA
GGCACAATCATGTTCAAGGTGGTTCCAGTCTCTGACCCTCCTGTGAATAGCCAGC
AGATGGTGTACGTCCGTGCCATGACTGAGTACTGGCCCCAGGAGGATCCCGACAT
CCCCTGCATGGACGCTGGATTGCCTTTCCAGAAGGGGGACATCCTCCAGATTGTG
GACCAGAATGATGCCCTCTGGTGGCAGGCCCGAAAAATCTCAGACCCTGCTACCT
GCGCTGGGCTTGTCCCTTCTAACCACCTTCTGAAGAGGAAGCAACGGGAATTCTG
GTGGTCTCAGCCGTACCAGCCTCACACCTGCCTCAAGTCAACCCTATCAATTTCT
ATGGAAGAAGAAGATGACATGAAGATTGATGAGAAATGTGTGGAAGCAGATGAAG
AAACATTTGAATCTGAGGAACTTTCAGAAGACAAGGAGGAGTTTGTTGGCTACGG
TCAGAAGTTCTTTATAGCTGGCTTCCGCCGCAGCATGCGCCTTTGTCGCAGGAAG
TCTCACCTCAGCCCGCTGCATGCCAGTGTGTGCTGCACCGGCAGCTGCTACAGTG
CAGTGGGTGCCCCTTACGAGGAGGTGGTGAGGTACCAGCGACGCCCTTCAGACAA
GTACCGCCTCATAGTGCTCATGGGACCCTCTGGTGTTGGAGTAAATGAGCTCAGA
AGACAACTTATTGAATTTAATCCCAGCCATTTTCAAAGTGCTGTGCCACACACTA
CTCGTACTAAAAAGAGTTACGAAATGAATGGGCGTGAGTATCACTATGTGTCCAA
GGAAACATTTGAAAACCTCATATATAGTCACAGGATGCTGGAGTATGGTGAGTAC
AAAGGCCACCTGTATGGCACTAGTGTGGATGCTGTTCAAACAGTCCTTGTCGAAG
GAAAGATCTGTGTCATGGACCTAGAGCCTCAGGATATTCAAGGGGTTCGAACCCA
TGAACTGAAGCCCTATGTCATATTTATAAAGCCATCGAATATGAGGTGTATGAAA
CAATCTCGGAAAAATGCCAAGGTTATTACTGACTACTATGTGGACATGAAGTTCA
AGGATGAAGACCTACAAGAGATGGAAAATTTAGCCCAAAGAATGGAAACTCAGTT
TGGCCAATTTTTTGATCATGTGATTGTGAATGACAGCTTGCACGATGCATGTGCC
CAGTTGTTGTCTGCCATACAGAAGGCTCAGGAGGAGCCTCAGTGGGTACCAGCAA
CATGGATTTCCTCAGATACTGAGTCTCAA**TGA**GACTTCTTGTTTAATGCTGGAGT
TTTAACACTGTACCCTTGATACAGCGATCCATAGTTGCAATCTAAAACAACAGTA
TTTGACCCATTTTAATGTGTACAACTTTAAAAGTGCAGCAATTTATTAATTAATC
TTATTTGAAAAAAATTTTTATTGTATGGTTATGTGGTTACCTATTTTAACTTAAT
TTTTTTTCCTTTACCTCATATGCAGCTGTGGTAGAAATATGAATAATGTTAAGTC
ACTGAGTATGAGAACCTTTCGCAGATTTCACATGATCTTTTTAAGATTTAAATAA
AGAGCTTTCCTAAAT

Figure 6a

Seq. ID No. 2

GAGATTTTATCGGGAGCAGTGAGGTGACTTTGGCAGCTAACAGGCCACTAGTATC
CTACTAAAGCTTTTGTCTGGATAGGAGCAACATGCATGTTTACAGTCTTGCAGgt
aagagaccttggcaaataatcctcagttaccagaagatgtatccataactgccta
gcttgcctgtcagtttttaatagctaaagatataaatctgggtaatctaactcaa
atggcttagtttcatttaactcaaatgatatggggaatttatgatcttgaaag
agcaggttttgcttcgagaagccatttcttcagtatggaataatg

Seq. ID No. 3

aaacatggagttaggggagcattttatgcaatagtcgttttctctttcacgcca
ctggtgatggttaagagtaggcaccacaggggaagactgtgtttcatttgatgtg
tatcccagtgtgtagcacagggcctggcttgctgaggaaatgctattgaaaatat
attccag**TGTGCTGAGAGCTGGTGGCCAGTGGGACTGAGTGAGCTGTGTGCCGTG**
TATTGACCCGCTTCCTAGTCCTGAATTCCTTTCAGAAGCTCCGGCAGGGAGG<u>ATG</u>
ATACAGTCAGACAAAGGAGCAGATCCACCAGACAAGAAGGACATGAAGCTTTCTA
CAGCCACCAATCCACAGAATGgtatgtgtcaccaggactccttttctagaccaga
aagtaatatcacctctgacatgtgatcaaatgaataggcagaaatcctgacagac
ttactgtgatccctatgaggatcttgtacatttttggttgcactactgccctacc
agtgataactttaagaa

Seq. ID No. 4

acaaagtaagaggtggaacagggcttgaagtcagatcttttggcctgagatccag
tgtcatttccactcctggtgagaccccatggcatgccccagctatctgagttgcc
tttcacatttacacccgcacctgccaccccatctctgctctcttcctttcctag**G**
CCTCTCCCAGATCCTGAGGCTTGTGCTGCAAGAGCTGAGTCTGTTCTACAGCAGA
GATGTGAATGGAGTGTGTCTCTTGTACGATCTCCTCCACTCGCCGTGGCTTCAGG
CTCTGCTAAAGgtgagtgcttctttgctcggaagcctttgcttgctgaaggggtt
gtggggagtgtgtagaaaatgacagcttcagtccattcaggctggatagtggaat
agtttataaacaacagaaattgatatctcacagttctgtaggccaggaagtccaa
aatccagt

Seq. ID No. 5

taagcttttgaagcatcggggccaccaaactcaagttcatttctctttggcaact
agagacacaacttactaaacaccaaccacaccgtgctgtgcagccattggtgcag
ttgcctggggtgtttcttctctttgagagtcttaaatccaaaatggcaatagtca
tattatcaatatcaattctccctcccttgtccttctgcag**ATTTATGACTGCCTC**
CAGGAATTTAAAGAAAAGAAACTAGTTCCTGCCACACCACATGCACAGGTGTTAT
CCTATGAGgtaaggagattttattccacaggatagtagagctctgatgtggtgcc
attttccccacattgctagttcaaatgaattaaaggttctaaggaaaagttttat
tgatgactatgcatctaataaatgtttctaattgaactttaatataaggaagaac
attggctg

Figure 6b

Seq. ID No. 6

ggtaggctttaatggatggctttatagatgaaaaagaaggctccagtaatagctt
tttaaaggtcaatatcatgttagtatgtatgttatccagcctgggtgaggttaag
taggtgataaagatttttaaaatttttataatgtatccttttccatgaaccag**G**
TAGTGGAGTTATTACGTGAAACCCCTACTTCCCCTGAGATCCAAGAGCTGAGACA
AATGCTCCAGGCTCCACACTTCAAGgcaagtgcctgctaaaatagaaaagatgtc
cccatctggcacatagacaaagttgggaaggagaaatatatgtgatggaaaatgt
tctctctgaatagatgttctattactgtacacggttactgaccaacagattgta

Seq. ID No. 7

cgcactgtgtctggcatgtctgtattggtgtttgttgttgttgctgtgtcttaga
tagtattgagttactatcttctagaggggtttggcccatgtgtgacatttgctca
ccttttccttccctgtgcccag**GCCTTGCTCAGTGCCCATGACACGATAGCTCAG**
AAAGATTTTGAACCCCTTCTCCCTCCACTGCCAGACAATATCCCTGAGAGTGAGG
AAGCAATGAGGATTGTTTGTTTAGTGAAAAACCAACAGCCCCTGgtaaggaaatc
atttttatctttccatttagggtaagcttaggttaattgtgaaccaaattatat
ctagtggttacttgggcagtagccttgcctgcgatcacatatacagtgataataa
cggctgtcaactctgcaagttttgcctgtggtttcaaacatattacatgtcacgg
tgttttct

Seq. ID No. 8

cattgattgaaagaccagagctgcattgattgaaagaccagagctgcattgattg
aaagaccagagctgcattgattgaaagaccagagctgcattgattgagggaagcc
acctggaaaatggtcatgtcaggtaacagagggatctcgtctattctctcttcag
GGAGCCACCATCAAGCGCCACGAGATGACAGGGGACATCTTGGTGGCCAGGATCA
TCCACGGTGGGCTGGCGGAGAGAAGTGgtaagctggagcagctgggattgagagt
taccagaaaaacaggaaacccttgactgtttaggcttctttctagagaaatccct
ttttttctttttttttttctttttttttttttgagatggagtcttgctctgtcg
cccaggctggagtgcagtggcgtgatctcggctcactgcaagctccacctctggg
gtttgcca

Seq. ID No. 9

atgtaagttggaataaccagctttcttttctattattatttatattaaacattt
ttagagcatgcttgggttagtgagttaaatagctatcgaggtagctactgctatt
tttatcctacttctttgtatctttctttgtttttttgttactgtctgcctag**GGTT**
GCTATATGCTGGAGACAAACTGGTAGAAGTGAATGGAGTTTCAGTTGAGGGACTG
GACCCTGAACAAGTGATCCATATTCTGgtaaatcttcttttgccttttttgttaa
tgacttggagaaatgccaaggctgaactgggaccatcaagcccacgtgtgtgcac
tgggatgtaccggggactcaagttctcttggcagctttctccctccaggctccca
gaccttgtctgtcacccatgtcacttgctgacctccctcctctaccccgagaagt
tctggtcc

Replacement Sheet - 25 of 30

Figure 6c

Seq. ID No. 10

ccatttctggatggtgacagctgcagagcccttgtgaaaggctcttgggggatttt
taccatgagacctggatacattgcactgtaactctgtccaccgagccccagtaac
cctgctagctccatgattgtcatcctttctcctctcttattttccag**GCCATGTC**
TCGAGGCACAATCATGTTCAAGGTGGTTCCAGTCTCTGACCCTCCTGTGAATAGC
CAGCAGATGgtaagaatttactgagccttcaatctcacacacagtaaatccccaa
gtaacagcaactaaatatgatgcgtaataatcctatcctttgtactgtgttggac
ctggattcaagactgtgttggatattttcaatactgatggcccgagaagcaaa

Seq. ID No. 11

gggtggagaggaaagataggagtagcaggtggaggagtgggagaaatggttttaa
gtcatgatggcccatgggcaagggttcttcggatggcaccattaggcaccttctg
atagcgtcattatgcacctgccatcag**GTGTACGTCCGTGCCATGACTGAGTACT**
GGCCCCAGGAGGATCCCGACATCCCCTGCATGGACGCTGGATTGCCTTTCCAGAA
GGGGGACATCCTCCAGATTGTGGACCAGAATGATGCCCTCTGGTGGCAGGCCCGA
AAAATCTCAGACCCTGCTACCTGCGCTGGGCTTGTCCCTTCTAACCACCTTCTGA
AGAGgtaaggaacgtcaccactcctggactcagggctgaaccatcaggaaacaaa
atgttttcttgggtttctgttacctcaagatgagataaagagggacaagcagat
gaatgaac

Seq. ID No. 12

atttggagaagcaatcacccttttcacttgagtgaaggcagcagaattctaagaa
acattctgtttgtcgttgctctgggtctgtttcatctaggttaacaaagagtggt
ttttgtttgtttttttgtcgcatggtttttttccccccccatag**GAAGCAACGGGAAT**
TCTGGTGGTCTCAGCCGTACCAGCCTCACACCTGCCTCAAGTCAACCCTATgtga
gtattgcaactgcccgacaggttcttcctgtttgcaataaagaccatggcattgc
agtaaataaagagtctaattgatgtgaggctggccatgccacatg

Seq. ID No. 13

cttactaaatcttccctgaatttctagagaataaacccagaatactaattacaat
aatttttgcacattacatttcttattgtaaattaatctgagaaaatatagtacag
atactgtgttctttttatcccccctgcttcaatcatttgcttgtactcag**CAATT**
TCTATGGAAGAAGgtaagaaatagtatttaggaaaaaactcttatctccaaagtc
ttttagaaatttcttgtagtttaaagaattcactttaattcagttcagctattta
ttaagctcttcctatatacctagtagtgtgatagtcattattaag

Seq. ID No. 14

catggtttcaccatgtcggtcaagttggtctcgaactcttgatctcaggtgatcc
gcccgcctcggcctcccagagtgctgggatcacaggcatgagccaccatgcctgg
ccgggaattttctttttaatgcagacacattttaaattctgtttctccctttcta
tactcttttatag**AAGATGACATGAAGATTGATGAGAAATGTGTGGAAGCAG**gta
acattttctcttgattgctttgctgttagaagaaatatgaagcatgtcaattata
gattatctgaagcagaggtgtccaaaggggccatgggcctttcctctagaaatgt
gtaaaatgaccctccacccccatctatcttctgtagttctggcacttggaagga

Figure 6d

Seq. ID No. 15

gtggtgtatgggcagaagtaggggccagagaattagacttaaaatatagactcag
tgtagatggtcatgtaataacatttttgatttttgcctccatgaaaaatcatag**A**
TGAAGAAACATTTGAATCTGgtaagtaaaaaatgagtatttggtactgattttta
aatgtatattctaaattttgatgcaatttatacacatatttataataactgttta
aatatatcaacattaaaaaattaaaaagtaactgcgtgtatcccacatcatgttg
tcaacctcaaatatacattataaaatttatttttaattttaattt

Seq. ID No. 16

cagtcccaatcatgtggtgatcatttgccttgccaggccttacccgagttacctt
ttgctagtggtgacgtgcacgtcttgcttatgtcatttgccttgatttgatggct
aacatgatcttcttaaaggcttaacttttcatgtctgtttctgcacttacccaa
atatccag**AGGAACTTTCAGAAG**gtaattgtttttatttcctagatataccaaat
agaactatgtttaagatctttcagtgcctcaaaaatgaatacttgactggataat
gtttaagatgaagatacggaatttgttgttgtttatggttttccc

Seq. ID No. 17

ataggatgaaaaatgcttagaacattcggtgagccactcaaggataaattcaact
ctgctgccgtctactaaggtggtcacttgaaaagttgaaaatgatttcatgaatt
tattctgaataaacttctcgctctcacatattctgctccatctgttctttgtgtt
tcag**ACAAGGAGGAGTTTGTTGGCTACGGTCAGAAGTTCTTTATAG**gtaggtgat
aaattaacaagaggtgggtctctgtcacttgttaaattatgtttccaaacctgac
actgttttgaaagtttcttttgctaatgaacatttccagacctgt

Seq. ID No. 18

cccaagacaatgcctggcccagagcaggtgctagatgggctagcacaggggcat
tttcatatttttccctcatattacttcccatcttctaacttcagacagacctgac
tatattaatgaacactttaggatcatggttgctacatatttcatcaggtgtgaag
ctacaagtgatctctcctgcctggttcttacgttctgtgcacttcccctccctag
CTGGCTTCCGCCGCAGCATGCGCCTTTGTCGCAGGAAGTCTCACCTCAGCCCGCT
GCATGCCAGTGTGTGCTGCACCGGCAGCTGCTACAGTGCAGTGGGTGCCCCTTAC
GAGGAGGTGGTGAGGTACCAGCGACGCCCTTCAGACAAGTACCGCCTCATAGTGC
TCATGGgtatgtcccagcatgcactgtctctcctcctccttgagaagtcttcctt
ctagattcaggtgtcttgcattgggaataatggtgaaagtagaactctttatgga
cccccatacaaatacct

Seq. ID No. 19

ttctggggttcttccaatttatgagaaaggaagttacataatttccctaaaaata
tttgctctcaagtttcttcagtagaaggactaaaatgataattccatcacataat
tatatttatccacatctgatgatttctgtgtgtgacttttgtgtttag**GACCCT**
CTGGTGTTGGAGTAAATGAGCTCAGAAGACAACTTATTGAATTTAATCCCAGCCA
TTTTCAAAGTGCTGTGCCACgtatgtttagttctgctttcataatggtttgtgtt
ttggtaaaactttctttgctgatctcatttaactatgtcattccatctttgttgt
aaaagtatacaacaccagggatagttcttaagtatttctaaccatatttatttt

Figure 6e

Seq. ID No. 20

tcagtaaaggtttatagactaactgattttgatacgagaacttatcaccaattca
ggcttcttcttttagttctagcattttatctccttgattatatattcatttatt
tattttgattagatatctttattcaaatgcatattggtaatcaaagaattctgaa
gacactgaaacctttcattccctttttctgatag**ACACTACTCGTACTAAAAAGA**
GTTACGAAATGAATGGGCGTGAGTATCACTATGTGTCCAAGGAAACATTTGAAAA
CCTCATATATAGTCACAGgtaaagtagaggttcagaagctgattcttacctcttg
ttgttttacatttgaaatagattccctatttttatgtatttccaaatctcctgg
gtaattccttttgtttctgaggagttaagcaagaaatgtacatcgatatacagca
caccaact

Seq. ID No. 21

atctattcattctttctgtgttaataaagtccacatatttatattcaactctagt
gcagtttatcctcatgttactactaataatattttccttgtagaaagtgttctgt
tttgtttggcctgctcttgcag**GATGCTGGAGTATGGTGAGTACAAAGGCCACCT**
GTATGGCACTAGTGTGGATGCTGTTCAAACAGTCCTTGTCGAAGGAAAGATCTGT
GTCATGGACCTAGAGCCTCAGgtgggtccatggtggaatatttatgtccccaaac
aatgaatgcgtatcatccatttttgtgcacatgctgtaggttatagttgagaca
tttattctgttagccttttaagaataaggccatttcccatatataagatcttact
taacgtgtcaattgacaacattttacttttagttgggaaagaagtcttgcttctc
agacagaa

Seq. ID No. 22

agctacttgggaggctgagatgggtggatcgtttgagcctgggaagctgaggcta
cagtgaactgtgattgcaccacagcactccagcctgggtgacagagcaagaccat
gtctcaaaacaaaacaaacaaaaaataaatgtgcatttaaattttctgtgtag**GA**
TATTCAAGGGGTTCGAACCCATGAACTGAAGCCCTATGTCATATTTATAAAGCCA
TCGAATATGAGGTGTATGAAACAATCTCGGAAAAATGCCAAGGTTATTACTGACT
ACTATGTGGACATGAAGTTCAAGgtaagagcaagtcaaaaactactgtattgctt
tcagtggcttctgcgtgggagagatctgggttgggctgggccaaggatctctgat
ctcattgtcctcctcctcctttttgacccctctccaaaaggccctcaataaaat
ggtttact

Seq. ID No. 23

ttttctagtttgctggttttgtagaattttgaaaaaatatttttgaaactttatt
gaaaatcatctgtgcaaaattttcggaccttactgtttttatacatagtttcaca
actgaatgtgacagcataacaaactgtatttttttccatttgtccaattaagtctg
tactatccatatttttctatttctcctaaag**GATGAAGACCTACAAGAGATGGAA**
AATTTAGCCCAAAGAATGGAAACTCAGTTTGGCCAATTTTTTGATCATGTGATTG
TGAATGACAGCTTGCACGATGCATGTGCCCAGTTGTTGTCTGCCATACAGAAGGC
TCAGGAGGAGCCTCAGTGGGTACCAGCAACATGGATTTCCTCAGATACTGAGTCT
CAATGAGACTTCTTGTTTAATGCTGGAGTTTTAACACTGTACCCTTGATACAGCG
ATCCATAGTTGCAATCTAAAACAACAGTATTTGACCCATTTTAATGTGTACAACT
TTAAAAGTGCAGCAATTTATTAATTAATCTTATTTGAAAAAAATTTTTATTGTAT
GGTTATGTGGTTACCTATTTTAACTTAATTTTTTTTCCTTTACCTCATATGCAGC
TGTGGTAGAAATATGAATAATGTTAAGTCACTGAGTATGAGAACCTTTCGCAGAT
TTCACATGATCTTTTTAAGATTTAAATAAAGAGCTTTCCTAAAT

Figure 7

Seq. ID No. 24

MIQSDKGADPPDKKDMKLSTATNPQNGLSQILRLVLQELSLFYSRDVNGVCLLYD
LLHSPWLQALLKIYDCLQEFKEKKLVPATPHAQVLSYEVVELLRETPTSPEIQEL
RQMLQAPHFKALLSAHDTIAQKDFEPLLPPLPDNIPESEEAMRIVCLVKNQQPLG
ATIKRHEMTGDILVARIIHGGLAERSGLLYAGDKLVEVNGVSVEGLDPEQVIHIL
AMSRGTIMFKVVPVSDPPVNSQQMVYVRAMTEYWPQEDPDIPCMDAGLPFQKGDI
LQIVDQNDALWWQARKISDPATCAGLVPSNHLLKRKQREFWWSQPYQPHTCLKST
LSISMEEEDDMKIDEKCVEADEETFESEELSEDKEEFVGYGQKFFIAGFRRSMRL
CRRKSHLSPLHASVCCTGSCYSAVGAPYEEVVRYQRRPSDKYRLIVLMGPSGVGV
NELRRQLIEFNPSHFQSAVPHTTRTKKSYEMNGREYHYVSKETFENLIYSHRMLE
YGEYKGHLYGTSVDAVQTVLVEGKICVMDLEPQDIQGVRTHELKPYVIFIKPSNM
RCMKQSRKNAKVITDYYVDMKFKDEDLQEMENLAQRMETQFGQFFDHVIVNDSLH
DACAQLLSAIQKAQEEPQWVPATWISSDTESQ

Seq. ID No. 25

ATAAACATTGGGCTGCACATAGAGACTTAATTTTAGATTTAGACAAA**ATG**GAAAT
TATTTCATCAAAACTATTCATTTTATTGACTTTAGCCACTTCAAGCTTGTTAACA
TCAAACATTTTTTGTGCAGATGAATTAGTGATSTCCAATCTTCACAGCAAAGAAA
ATTATGACAAATATTCTGAGCCTAGAGGATACCCAAAAGGGGAAAGAAGCCTCAA
TTTTGAGGAATTAAAAGATTGGGGACCAAAAAATGTTATTAAGATGAGTACACCT
GCAGTCAATAAAATGCCACACTCCTTCGCCAACTTGCCATTGAGATTTGGGAGGA
ACGTTCAAGAAGAAAGAAGTGCTGGAGCAACAGCCAACCTGCCTCTGAGATCTGG
AAGAAATATGGAGGTGAGCCTCGTGAGACGTGTTCCTAACCTGCCCCAAAGGTTT
GGGAGAACAACAACAGCCAAAAGTGTCTGCAGGATGCTGAGTGATTTGTGTCAAG
GATCCATGCATTCACCATGTGCCAATGACTTATTTTACTCCATGACCTGCCAGCA
CCAAGAAATCCAGAATCCCGATCAAAAACAGTCAAGGAGACTGCTATTCAAGAAA
ATAGATGATGCAGAATTGAAACAAGAAAAA**TAA**GAAACCTGGAGCCTGTCCCTAA
AGCTGTGGCCTGTAATCTACAAATGGCTCTATAGCGAAGACCACACGGAAGAGTA
GCTACATACACTTCATCAGCTATGGATCATCAACGGCAATTTTTCCTTGTCAGTA
CAGCTATAATAGTATCTTGAAAGTTGTAAAAAAATTAAAGCATATTTGTTACGTA
AAGTTAAAATGATTTTTGTCTGAATAAAAAAAAAGCATTGCAAATGCTTTAGAAA
TCTCTGATAATGGAGAGAGAGACAGAGGACCCTCCTCACTACCCTATATAAAAAT
CATTGGCACAGTTACACTTAATAAAAAAAATTAAACAGAAGAGCACCCTGAAAAA
CATTATGATGGAAATTAAATAGTATGCCAGAATAACATGGTTGACAAATAAGTGA
ACAAGGATTAAAAATCACTTACAAACGTGTTTCTGTACACCCTTTCTATCGTGTC
AAATGTTAATGAATCTGTGATCAATTGAAATGTAAATGTCTGTGTAAAACTACAA
AATAAAAACTCTTAGACTTTAGGGAGAAAAGAAAA

Figure 8

Seq. ID No. 26

ATAAACATTGGGCTGCACATAGAGACTTAATTTTAGATTTAGACAAAATGGAAAT
TATTTCATCAAAACTATTCATTTTATTGACTTTAGCCACTTCAAGCTTGTTAACA
TCAAACATTTTTTGTGCAGATGAATTAGTGATSTCCAATCTTCACAGCAAAGAAA
ATTATGACAAATATTCTGAGgtaagtttttaaatctctctaatgtgagtagcat
taattacataatattaatcctaagtctaatgatttt

Seq. ID No. 27

gggtttaaatctgttgcttataacaacagtatgttattgtaatggtcatttctaa
ttatag**CCTAGAGGATACCCAAAAGGGGAAAGAAGCCTCAATTTTGAGGAATTAA**
AAGATTGGGGACCAAAAAATGTTATTAAGATGAGTACACCTGCAGTCAATAAAAT
GCCACACTCCTTCGCCAACTTGCCATTGAGATTTGGGAGGAACGTTCAAGAAGAA
AGAAGTGCTGGAGCAACAGCCAACCTGCCTCTGAGATCTGGAAGAAATATGGAGG
TGAGCCTCGTGAGACGTGTTCCTAACCTGCCCCAAAGGTTTGGGAGAACAACAAC
AGCCAAAAGTGTCTGCAGGATGCTGAGTGATTTGTGTCAAGGATCCATGCATTCA
CCATGTGCCAATGACTTATTTTACTCCATGACCTGCCAGCACCAAGAAATCCAGA
ATCCCGATCAAAAACAGTCAAGgtaaatacctggaaaccagtcaaagtgcatggg
cagttatatagaggtgg

Seq. ID No. 28

acacaattcaactcaagtataattaggcagttaggactatggcttgtatttgtat
acacacttgcatgctgttgttctgatgggtgacaacattttatactgcttacatt
ttag**GAGACTGCTATTCAAGAAAATAGATGATGCAGAATTGAAACAAGAAAAATA**
AGAAACCTGGAGCCTGTCCCTAAAGCTGTGGCCTGTAATCTACAAATGGCTCTAT
AGCGAAGACCACACGGAAGAGTAGCTACATACACTTCATCAGCTATGGATCATCA
ACGGCAATTTTTCCTTGTCAGTACAGCTATAATAGTATCTTGAAAGTTGTAAAAA
AATTAAAGCATATTTGTTACGTAAAGTTAAAATGATTTTTGTCTGAATAAAAAAA
AAGCATTGCAAATGCTTTAGAAATCTCTGATAATGGAGAGAGAGACAGAGGACCC
TCCTCACTACCCTATATAAAAATCATTGGCACAGTTACACTTAATAAAAAAAATT
AAACAGAAGAGCACCCTGAAAAACATTATGATGGAAATTAAATAGTATGCCAGAA
TAACATGGTTGACAAATAAGTGAACAAGGATTAAAAATCACTTACAAACGTGTTT
CTGTACACCCTTTCTATCGTGTCAAATGTTAATGAATCTGTGATCAATTGAAATG
TAAATGTCTGTGTAAAACTACAAAATAAAAACTCTTAGACTTTAGGGAGAAAAGA
AAAaggcaactatgagttacctcttttagtgtctcctctatctacatccagaa

Figure 9

Seq. ID No. 29

MEIISSKLFILLTLATSSLLTSNIFCADELVISNLHSKENYDKYSEPRGYPKGER
SLNFEELKDWGPKNVIKMSTPAVNKMPHSFANLPLRFGRNVQEERSAGATANLPL
RSGRNMEVSLVRRVPNLPQRFGRTTTAKSVCRMLSDLCQGSMHSPCANDLFYSMT
CQHQEIQNPDQKQSRRLLFKKIDDAELKQEK

Seq. ID No. 30

ACACACAACGGGGTTTCGGGGCTGTGGACCCTGTGCCAGGAAAGGAAGGGCGCAGCTCCTGCAATG
CGGAGCAGCCAGGGCAGTGGGCACCAGGCTTTAGCCTCCCTTTCTCACCCTACAGAGGGCAGGCCC
TTCAGCTCCATTCTCCTCCAAGGCTGCAGAGGGGGCAGGAATTGGGGGTGACAGGAGAGCTGTAAG
GTCTCCAGTGGGTCATTCTGGGCCCAGAGATGGGTGCTGAAGCTCCCACGCCTGCCTGTGAAAATG
GAGTCCTCTCTCACCTGGGAGAGCCAGGTGCTGCCCCGAGAAGGATGCATTTATGGCTTCRTGAAG
TCTTTCCTGACCCCCG**ATG**CTGCTGACTATAGAGACAAAGTCTCACTATGTTGCTCAGGCTGGTCT
TGAACTCCTGGCCTCAAGCGATCCTCCCACCTYAGCCTCCCAAAGWGTTGGGATTATAGACATGAG
CCACTGCACCTGGCCGACCTTGGGCAAGTTCTTAAACCCTTCAAAGCCTCATTTTTCTCCAATCAY
AAAAGGGAAAGATGGTAATATTTTCCCCWCCAAATTCTTGTCGGATGCCCTCACAGAATTGAGATT
ATGTACG**TAA**AACACCAGGTGCCTAACCCGGCACAGAGCAGGAGGGCTAAGCGTGACATCCAGCAC
GTGGTCAGTGGAATCCAGTATTCCTACCCACCTCTCTAGTCTCCCCTCCACCCCTCTCCCTTTCAG
AGGCACCAAGCTGCTTGTGGTCTTGTCTATTCCCACTCCCTGCCTGACTGAACATTTTCTCCACCT
CCTGATCATCAGCAGCAGAAACTGGCTGCTCTTCCTCCTGGGTAGACAGCCAGACTGTATTTCCCA
GCTGCCCCTGCAGTGAGATGTGGCCATCGGAGCCAGCATTGGCCAATGGACTCTGCATGGGAGTGA
CGCATGCWGCCTCCAGGCTTGTCCCTAAAACCTCCCACGTGTCCTCSGCCTGCTCTTCCCACYTCC
AAGGAGCACGGCAATTGTGGAAGACCCAGATTAGTGATGGCAGAACCATAGATGGGAGGAACCTGG
GTCCCTGACTTAAAGTATCATGGATTTGGATGTTCCCTTAGTGAGAAATAAACTTCCATTGTGTTT
AAGCCTTTATTTGTTTATAGTTGGTTACAGCAACTGCCTTCTTTTAATTAAAACACTCCTGCTGCT

Seq. ID No. 31

MLLTIETKSHYVAQAGLELLASSDPPTSASQSVGIIDMSHCTWPTLGKFLNPSKPHFSPITKGKDG
NIFPTKFLSDALTELRLCT

Figure 10

Seq. ID No. 32

tatatgggaatgagccagctgcaccgctgctgacagtggctgggataatcctccctgagctgttcc
aaggattagtcctgctgccctgtgcccagctcccACACAACGGGGTTTCGGGGCTGTGGACCCTGT
GCCAGGAAAGGAAGGGCGCAGCTCCTGCAATGCGGAGCAGCCAGGGCAGTGGGCACCAGGCTTTAG
CCTCCCTTTCTCACCCTACAGAGGGCAGGCCCTTCAGCTCCATTCTCCTCCAAGGCTGCAGAGGGG
GCAGGAATTGGGGGTGACAGGAGAGCTGTAAGGTCTCCAGTGGGTCATTCTGGGCCCAGAGATGGG
TGCTGAAGCTCCCACGCCTGCCTGTGAAAATGGAGTCCTCTCTCACCTGGGAGAGCCAGGTGCTGC
CCCGAGAAGGATGCATTTATGGCTTCATGAAGTCTTTCCTGACCCCCGATGCTGCTGACTATAGgt
aagtctgagcaaatctgggggagcctcatcttggcatgagaaagagatggcttcttctaagcccac
tggccgtgatcccaggattataacacattctg

Seq. ID No. 33

catgagaggtagtataatatagaggatatgtgtgcttactaagaggctgcctgtctgaccttggac
aagttctttttatttatttatttatttttatagAGACAAAGTCTCACTATGTTGCTCAGGCTGGT
CTTGAACTCCTGGCCTCAAGCGATCCTCCCACCTTAGCCTCCCAAAGAGTTGGGATTATAGACATG
AGCCACTGCACCTGGCCGACCTTGGGCAAGTTCTTAAACCCTTCAAAGCCTCATTTTTCTCCAATC
ATAAAAGGGAAAGATGGTAATATTTTCCCCTCCAAATTCTTgtaagtattaaacattgtatatgta
ttttgaacacgattaagctctaaacacttgttaggaagcaggagtagcatttgaaacaaacagctc
ttttcccac

Seq. ID No. 34

aagtattaaacattgtatatgtattttgaacacgattaagctctaaacacttgttaggaagcagga
gtagcatttgaaacaaacagctcttttcccacagGTCGGATGCCCTCACAGAATTGAGATTATGTA
CGTAAAACACCAGGTGCCTAACCCGGCACAGAGCAGGAGGGCTAAGCGTGACATCCAGCACGTGGT
CAGTGGAATCCAGTATTCCTACCCACCTCTCTAGTCTCCCCTCCACCCCTCTCCCTTTCAGAGGCA
CCAAGCTGCTTGTGGTCTTGTCTATTCCCACTCCCTGCCTGACTGAACATTTTCTCCACCTCCTGA
TCATCAGCAGCAGAAACTGGCTGCTCTTCCTCCTGGGTAGACAGCCAGACTGTATTTCCCAGCTGC
CCCTGCAGTGAGATGTGGCCATCGGAGCCAGCATTGGCCAATGGACTCTGCATGGGAGTGACGCAT
GCTGCCTCCAGGCTTGTCCCTAAAACCTCCCACGTGTCCTCCGCCTGCTCTTCCCACTTCCAAGGA
GCACGGCAATTGTGGAAGACCCAGATTAGTGATGGCAGAACCATAGATGGGAGGAACCTGGGTCCC
TGACTTAAAGTATCATGGATTTGGATGTTCCCTTAGTGAGAAATAAACTTCCATTGTGTTTAAGCC
TTTATTTGTTTATAGTTGGTTACAGCAACTGCCTTCTTTTAATTAAAACACTCCTGCTGCTtcatg
ttgctggaatgcttgtaaccctgccctgcttcaccagggtaactcctacttggcctttaagtttat
ctctgctgtcacaccgtccagaaagcctt

Feb 24 2004 03:22PM

Figure 11

Seq. ID No. 35

GAAAGTCCAGCCATCTGTTACCTGCGTTGCTTCCTGGGGRGGGATAGTCCACCTGGAGGCATTCGG
AGACCCAGTGATTGTGCTCCGYGGAGCCTGGGCTGTGCCCCGCGTTGACTGCCTCATAGATACCCT
ACGAACCCCAAATGCCAGCTGC**ATG**AGAAAAGGGACTCACCTTCTGGTTCCCTGCCTGGAAGAGGA
AGAGCTGGCATTGCACAGGAGACGGCTGGACATGTCTGAGGCACTGCCCTGCCCGGGCAAGGAGAC
CCCCACCCCAGGCTGCAGGCTGGGGGCCCTGTATTGGGCCTGTGTCCACAATGATCCCACCCAGCT
CCAAGCCATACTGGATGGTGGGGTCTCCCCAGAGGAGGCCACCCAGGTGGACAGCAATGGGAGGAC
AGGCCTCATGGTCGCATGCTACCACGGCTTCCAGAGTGTTGTGGCCCTGCTCAGCCACTGTCCTTT
CCTTGATGTGAACCAGCAGGACAAAGGAGGGGACACGGCCCTCATGTTGGCTGCCCAAGCAGGCCA
CGTGCCTCTAGTGAGTCTCCTGCTCAACTACTATGTGGGCCTGGACCTGGAACGCCGGGACCAGCG
GGGGCTCACGGCGTTAATGAAGGCTGCCATGCGGAACCGCTGTGCTGACCTGACAGCAGTGGACCC
TGTTCGGGGCAAGACGGCCCTGGAATGGGCAGTGCTGACCGACAGCTTCGACACCGTGTGGAGGAT
TCGGCAGCTGCTGAGGCGGCCCCAAGTGGAGCAGCTTAGCCAGCACTACAAGCCCGAGTGGCCGGC
CTTGTCCGGGCTCGTGGCCCAGGCCCAGGCCCAGGCCCAGGTTGCCCCTTCACTCCTAGAACGGCT
GCAGGCTACCTTGAGCCTCCCCTTTGCCCCGTCTCCTCAGGAGGGGGGTGTTCTGGACCACCTTGT
GACTGCCACAACCAGCCTGGCCAGTCCCTTCGTCACCACTGCCTGCCACACTCTGTGCCCTGACCA
TCCACCTTCGCTGGGCACCCGAAGCAAGTCCGTGCCAGAGCTGTTAGTGCCAGCCGAAGCCCAGTC
CTTCAGGACACCAAAGTCTGGCCCTTCCTCTCTGGCGATACCAGGAGCTCAGGATAGAGAAGAGGA
AACAGGAGGAGGAGGCCAGAATGGCACAGAAGTAGGGGAAGATGGGATAGGACAGGCTGGGAACAG
G**TAA**TCAGGCCCCTCCCAGGGCTTCTTTCCCCTCTGGAGTGCCTCCGGCCTCCCCATCCACCTCTG
CCTAAGTAAATCTGCTCTCAACCTATATATATACAAGGTCATTCATTCTAGCATTGTTTGCAAGAG
TGAAAGAGTGGAAACACCCGAAGTGTCCATCAGTAAGGGACAGGCTAGATTGATTACGGATGTAAT
TGCTGTCCATCCATACAGAGCATACTCTACAGTGTATTCTAAAATAAGACTAAGGAAGCTGTTTAT
ATTCTGATATGAAACTACCATCAAGATGTATAAAGTAAAAATAACTAAGGAGTGGAACAGTG

Seq. ID No. 36

GAAAGTCCAGCCATCTGTTACCTGCGTTGCTTCCTGGGGRGGGATAGTCCACCTGGAGGCATTCGG
AGACCCAGTGATTGTGCTCCGYGGAGCCTGGGCTGTGCCCCGCGTTGACTGCCTCATAGATACCCT
ACGAACCCCAAATGCCAGCTGC**ATG**AGAAAAGGGACTCACCTTCTGGTTCCCTGCCTGGAAGAGGA
AGAGCTGGCATTGCACAGGAGACGGCTGGACATGTCTGAGGCACTGCCCTGCCCGGGCAAGGAGAC
CCCCACCCCAGGCTGCAGGCTGGGGGCCCTGTATTGGGCCTGTGTCCACAATGATCCCACCCAGCT
CCAAGCCATACTGGATGGTGGGGTCTCCCCAGAGGAGGCCACCCAGGTGGACAGCAATGGGAGGAC
AGGCCTCATGGTCGCATGCTACCACGGCTTCCAGAGTGTTGTGGCCCTGCTCAGCCACTGTCCTTT
CCTTGATGTGAACCAGCAGGACAAAGGAGGGGACACGGCCCTCATGTTGGCTGCCCAAGCAGGCCA
CGTGCCTCTAGTGAGTCTCCTGCTCAACTACTATGTGGGCCTGGACCTGGAACGCCGGGACCAGCG
GGGGCTCACGGCGTTAATGAAGGCTGCCATGCGGAACCGCTGTGAGTGCGTGGCCACCCTCCTCAT
GGCAGGTGCTGACCTGACAGCAGTGGACCCTGTTCGGGGCAAGACGGCCCTGGAATGGGCAGTGCT
GACCGACAGCTTCGACACCGTGTGGAGGATTCGGCAGCTGCTGAGGCGGCCCCAAGTGGAGCAGCT
TAGCCAGCACTACAAGCCCGAGTGGCCGGCCTTGTCCGGGCTCGTGGCCCAGGCCCAGGCCCAGGC
CCAGGTTGCCCCTTCACTCCTAGAACGGCTGCAGGCTACCTTGAGCCTCCCCTTTGCCCCGTCTCC
TCAGGAGGGGGGTGTTCTGGACCACCTTGTGACTGCCACAACCAGCCTGGCCAGTCCCTTCGTCAC
CACTGCCTGCCACACTCTGTGCCCTGACCATCCACCTTCGCTGGGCACCCGAAGCAAGTCCGTGCC
AGAGCTGTTAGTGCCAGCCGAAGCCCAGTCCTTCAGGACACCAAAGTCTGGCCCTTCCTCTCTGGC
GATACCAGGAGCTCAGGATAGAGAAGAGGAAACAGGAGGAGGAGGCCAGAATGGCACAGAAGTAGG
GGAAGATGGGATAGGACAGGCTGGGAACAGG**TAA**TCAGGCCCCTCCCAGGGCTTCTTTCCCCTCTG
GAGTGCCTCCGGCCTCCCCATCCACCTCTGCCTAAGTAAATCTGCTCTCAACCTATATATATACAA
GGTCATTCATTCTAGCATTGTTTGCAAGAGTGAAAGAGTGGAAACACCCGAAGTGTCCATCAGTAA
GGGACAGGCTAGATTGATTACGGATGTAATTGCTGTCCATCCATACAGAGCATACTCTACAGTGTA
TTCTAAAATAAGACTAAGGAAGCTGTTTATATTCTGATATGAAACTACCATCAAGATGTATAAAGT
AAAAATAACTAAGGAGTGGAACAGTG

Figure 12

Seq. ID No. 37

MRKGTHLLVPCLEEEELALHRRRLDMSEALPCPGKETPTPGCRLGALYWACVHNDPTQLQAILDGG
VSPEEATQVDSNGRTGLMVACYHGFQSVVALLSHCPFLDVNQQDKGGDTALMLAAQAGHVPLVSLL
LNYYVGLDLERRDQRGLTALMKAAMRNRCADLTAVDPVRGKTALEWAVLTDSFDTVWRIRQLLRRP
QVEQLSQHYKPEWPALSGLVAQAQAQAQVAPSLLERLQATLSLPFAPSPQEGGVLDHLVTATTSLA
SPFVTTACHTLCPDHPPSLGTRSKSVPELLVPAEAQSFRTPKSGPSSLAIPGAQDREEETGGGGQN
GTEVGEDGIGQAGNR

Seq. ID No. 38

MRKGTHLLVPCLEEEELALHRRRLDMSEALPCPGKETPTPGCRLGALYWACVHNDPTQLQAILDGG
VSPEEATQVDSNGRTGLMVACYHGFQSVVALLSHCPFLDVNQQDKGGDTALMLAAQAGHVPLVSLL
LNYYVGLDLERRDQRGLTALMKAAMRNRCECVATLLMAGADLTAVDPVRGKTALEWAVLTDSFDTV
WRIRQLLRRPQVEQLSQHYKPEWPALSGLVAQAQAQAQVAPSLLERLQATLSLPFAPSPQEGGVLD
HLVTATTSLASPFVTTACHTLCPDHPPSLGTRSKSVPELLVPAEAQSFRTPKSGPSSLAIPGAQDR
EEETGGGGQNGTEVGEDGIGQAGNR

Seq. ID No. 39

GAAAGTCCAGCCATCTGTTACCTGCGTTGCTTCCTGGGGRGGGATAGTCCACCTGGAGGCATTCGG
AGACCCAGTGATTGTGCTCCGYGGAGCCTGGGCTGTGCCCCGCGTTGACTGCCTCATAGATACCCT
ACGAACCCCAAgtaagaaaaaacgacgaccctctctccgtgagtctcactg

Seq. ID No. 40

gggataaatgttttccctggggcaagggctgtgcacttcgcagctgctgggtcccctccctaggat
ccagggagacactcactactcctctccattctgtgttttag**ATGCCAGCTGCATGAGAAAAGGGAC**
TCACCTTCTGGTTCCCTGCCTGGAAGAGGAAGAGCTGGCATTGCACAGGAGACGGCTGGACATGTC
TGAGGCACTGCCCTGCCCGGGCAAGGAGACCCCCACCCCAGGCTGCAGGCTGGGGGCCCTGTATTG
GGCCTGTGTCCACAATGATCCCACCCAGCTCCAAGCCATACTGGATGGTGGGGTCTCCCCAGAGGA
GGCCACCCAGGTGGACAGCAATGGGAGGgtgagatgtcctggcttcccagaacagctgggggcatc
tttgcatccccaccacaccgtcctggcctggctccctgagaggggttcaggggcaatacctcctgc

Seq. ID No. 41

ctctgggacagatatgggtttagagggtgcaaggggccctggagtggcccaggggggaaagcagggg
atctgagctgcccctccctcag**ACAGGCCTCATGGTCGCATGCTACCACGGCTTCCAGAGTGTTGT**
GGCCCTGCTCAGCCACTGTCCTTTCCTTGATGTGAACCAGCAGGACAAAGGAGGGGACACGGCCCT
CATGTTGGCTGCCCAAGCAGgtgtgaggctgctgcaccccacttccgacagcccccttttgatgca
gacagggcctcagccccaccttgttgcacggtgttctacacca

Seq. ID No. 42

tcatcacccccttttcctggggaccaagcttacccttgctgccctgcag**GCCACGTGCCTCTAGTGA**
GTCTCCTGCTCAACTACTATGTGGGCCTGGACCTGGAACGCCGGGACCAGCGGGGGCTCACGGCGT
TAATGAAGGCTGCCATGCGGAACCGCTgtgagtgcgtggccaccctcctcatggcaggtgtgcggg
gcctggaccggggtgtgtggcctccagtccctc

Seq. ID No. 43

tcatcacccccttttcctggggaccaagcttacccttgctgccctgcag**GCCACGTGCCTCTAGTGA**
GTCTCCTGCTCAACTACTATGTGGGCCTGGACCTGGAACGCCGGGACCAGCGGGGGCTCACGGCGT
TAATGAAGGCTGCCATGCGGAACCGCTGTGAGTGCGTGGCCACCCTCCTCATGGCAGgtgtgcggg
gcctggaccggggtgtgtggcctccagtccctc

Figure 13

Seq. ID No. 44

aatgtaacccacatcagtcttgctcctaaagaatctgcccttccacaaatcaccaacccctatccc
gccccatgtcacccccctgtgctccttcccag**GTGCTGACCTGACAGCAGTGGACCCTGTTCGGGGC**
AAGACGGCCCTGGAATGGGCAGTGCTGACCGACAGCTTCGACACCGTGTGGAGGATTCGGCAGCTG
CTGAGGCGGCCCCAAGTGGAGCAGCTTAGCCAGCACTACAAGCCCGAGTGGCCGGCCTTGTCCGGG
CTCGTGGCCCAGGCCCAGGCCCAGGCCCAGGTTGCCCCTTCACTCCTAGAACGGCTGCAGGCTACC
TTGAGCCTCCCCTTTGCCCCGTCTCCTCAGGAGGGGGGTGTTCTGGACCACCTTGTGACTGCCACA
ACCAGCCTGGCCAGTCCCTTCGTCACCACTGCCTGCCACACTCTGTGCCCTGACCATCCACCTTCG
CTGGGCACCCGAAGCAAGTCCGTGCCAGAGCTGTTAGgtactgccccgcccccctccctggttccc
cagtccccgccagggagtccccagaggtccccgtgggtcttcgtcccctaccagagccct

Seq. ID No. 45

ccaaggcatcctcatcctcccaccag**TGCCAGCCGAAGCCCAGTCCTTCAGGACACCAAAGTCTGG**
CCCTTCCTCTCTGGCGATACCAGGAGCTCAGGATAGAGAAGAGGAAACAGGAGGAGGAGGCCAGAA
TGGCACAGAAGTAGGGGAAGATGGGATAGGACAGGCTGGGAACAGGTAATCAGGCCCCTCCCAGGG
CTTCTTTCCCCTCTGGAGTGCCTCCGGCCTCCCCATCCACCTCTGCCTAAGTAAATCTGCTCTCAA
CCTATATATATACAAGGTCATTCATTCTAGCATTGTTTGCAAGAGTGAAAGAGTGGAAACACCCGA
AGTGTCCATCAGTAAGGGACAGGCTAGATTGATTACGGATGTAATTGCTGTCCATCCATACAGAGC
ATACTCTACAGTGTATTCTAAAATAAGACTAAGGAAGCTGTTTATATTCTGATATGAAACTACCAT
CAAGATGTATAAAGTAAAAATAACTAAGGAGTGGAACAGTG

Replacement Sheet